Author Index of Volume 209

Agullo, J. M., 52
Aharanov, R., 165
Al-Jumaily, G. A., 223
Anderson, W. A., 230
Ang, S. S., 73
Aparna, Y., 104
Arisawa, S., 259
Arise, T., 259
Avaritsiotis, J. N., 17

Barna, A., 195
Barriere, A. S., 38
Bässler, H., 250
Bergkvist, M., 153
Berning, G. L. P., 132
Berry, A. D., 9
Binks, B. P., 280
Brown, W. D., 73
Bryce, M. R., 150

Cabaud, B., 161
Celerier, A., 59
Chakraborty, A. K., 92
Chatterjee, A. P., 92
Coll, B. F., 165
Colton, E., 109
Cong, Q., 1
Costato, M., 67
Couturier, G., 38
Cretin, B., 127

Dalacu, N., 207
Das, B. K., 116
Dhara, S., 116
Diaz, L., 137
Dimitrov, D. Z., 80
D'Silva, C., 122
del Pozo, J. M., 137

Edlou, S. M., 223
El-Sayed, N. Z., 32
El-Shabiny, A. M., 32
Elfajri, A., 38
Ewing, K. J., 9

Fletcher, P. D. I., 280
Fukuda, K., 269
Furuno, T., 277

Garito, A. F., 277
Gevers, G., 38
Gibson, P. N., 155
Giorgianni, U., 97
Gissler, W., 155
Grasso, V., 97
Grenier, I., 59
Grünewald, W., 195
Guegan, H., 38

Hara, M., 277
Hauden, D., 127
Haupt, J., 155
Hitova, L., 26
Hoareau, A., 161
Hu, J. X., 161
Huang, R., 207
Hussain, O. Md, 104

Ikeda, N., 176

Jagawa, I., 277
Jayarama Reddy, P., 104
Jensen, P., 161
Jia, Q. X., 230

Kazimierski, P., 250
Kim, Y. T., 215
Kisiel, A., 250
Kitai, A. H., 207
Kozhukharov, V. S., 80
Kryukov, A. Y., 84
Kuramoto, N., 264

Lahiri, S. K., 92
Lal, R., 240
Lingg, L. J., 9
Liu, S.-K., 148

Machet, J., 59
Mahmoud, A., 127
Majni, G., 67
Malhotra, G. L., 116
Marinković, Ž., 44, 181
Masuda, K., 277
Matsuda, H., 145
Matsumoto, K., 277
Maury, F., 52
Melinon, P., 161
Menjucci, P., 67
Milekhin, A. H., 174
Min, S.-K., 215
Mombelli, B., 38
Morancho, R., 52
Morgan, H., 122
Mukhopadhyay, A. K., 92

Nakahara, H.,, 269
Nam, C. W., 215
Neri, F., 97
Nomura, R., 145

Odrobina, E., 250
Orihara, K., 274, 277
Orlova, E. V., 188
Ou, Y. J., 1
Ozaki, Y., 264

Pearson, C., 150
Pellicori, S. F., 109
Petrovsky, V. I., 188
Petty, M. C., 150
Phatak, G., 240
Phipps, J. S., 280
Purdy, A. P., 9
Pusep, Yu. A., 174

Ramadan, A. A., 32
Rastogi, A. C., 116
Reddy, P. S., 104
Ribbing, C.-G., 153
Richardson, R. M., 280
Rickerby, D. G., 155

Saidov, A. Ch, 84
Sakuhara, T., 269
Sanders, B. W., 207
Sasabe, H., 277
Sathrum, P., 165
Sato, A., 277
Seki, Y., 145
Shi, Z. Q., 230
Simić, V., 44, 181
Srinivasulu Naidu, B., 104
Stenzel, O., 195
Swart, H. C., 132

Takadoum, J., 127
Tamor, M. A., 165
Taylor, D. M., 122
Tomita, E., 269
Tournay, V., 38
Treilleux, M., 161
Trusso, S., 97
Tsiogas, C. D., 17
Tyczkowski, J., 250

Ulrich, R. K., 73

Vannikov, A. V., 84
Vasiljeva, L. L., 174
Verinaud, F., 59
Vogel, M., 195
Vorotilov, K. A., 188

Wada, T., 277
Wang, D.-H., 211
Wang, J., 1
Weissmantel, E., 59
Weissmantel, S., 59
Williams, G., 150
Woo, S. I., 215

Yakimova, R., 26
Yamada, A., 277
Yamamoto, R., 259
Yamazaki, T., 176
Yi, D., 73
Yu, D., 1

Zema, N., 250
Zhang, H.-W., 148

Subject Index of Volume 209

Adsorption
concentration of enzymes adsorbed onto Langmuir films and characteristics of a urea sensor, 259
Alloys
laser-deposited thin TeSeSn alloy films, 80
stability of compounds in thin film metal couples in the course of long ageing at room temperature, 181
substrate effect on texturized microstructures in Ni–Cr thin films, 67
Aluminium
potentiostatic testing of thin film aluminium corrosion propagation under plasma-enhanced chemically vapor deposited silicon nitride protective films, 73
effect of Langmuir–Blodgett monolayers in decreasing the particle sizes of evaporated aluminium, 277
uniformity of sputtered films formed by fan-shaped composite targets, 176
Aluminium oxide
thin film $MgAl_2O_4$: Mn spinel phosphor, 207
Amorphous material
comparison of methods for the determination of optical constants of thin films, 137
Amorphous materials
electrical and optical properties of amorphous carbon layers: limits of the isotropic layer model, 195
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
frequency-dependent conductivity in boron- and phosphorus-doped amorphous silicon films, 97
Anisotropy
electrical and optical properties of amorphous carbon layers: limits of the isotropic layer model, 195
orientation control of liquid crystals by Langmuir–Blodgett films, 269
Annealing
sol–gel silicon dioxide films, 188
effect of diluent gas and rapid thermal annealing on the properties of plasma-deposited silicon nitride films, 215
Antimony
study of the crystallization of antimony thin films by transmission electron microscopy observations and electrical measurements, 161
Arsenic
Influence of tin on InAs dissolution and epitaxy in In–Sn melts, 26
Auger electron spectroscopy
primary study of structures of r.f.-sputtered MoS_2 films, 1
auger electron spectroscopy study of room temperature oxidation of $FeSi_x$ after Ar^+ ion bombardment, 132

Barium
$BaTiO_3$ thin film capacitors deposited by r.f. magnetron sputtering, 230
Band structure
Carrier-induced lower energy side shift of the absorption edge in undoped GaAs films, 211
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
Bismuth
size-dependent structural characteristics of thin bismuth films, 32
Boron nitride
investigations of hard BN films obtained by ion plating, 59
structural investigation of reactively sputtered boron nitride films, 155

Cadmium
room temperature compound formation in Ag–Cd and Ag–Zn thin film couples and their transformation by ageing, 44
structural and electrical properties of cadmium oxide films deposited by the activated reactive evaporation technique, 240
Capacitors
$BaTiO_3$ thin film capacitors deposited by r.f. magnetron sputtering, 230
Carbon
diamond-like carbon films synthesized by cathodic arc evaporation, 165
electrical and optical properties of amorphous carbon layers: limits of the isotropic layer model, 195
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
Chemical vapour deposition
chemical vapour infiltration of Si_xC_{1-x} films for the preparation of composite materials using both organosilicon and hydrocarbon precursors, 52
sodium fluoride thin films by chemical vapor deposition, 9
Chromium
substrate effect on texturized microstructures in Ni–Cr thin films, 67
Clusters
Langmuir–Blodgett films of C_{60}, 150
Computer simulations
reactive sputtering process model for symmetrical planar diode systems, 17
comparison of methods for the determination of optical constants of thin films, 137
Conductivity
frequency-dependent conductivity in boron- and phosphorus-doped amorphous silicon films, 97
particular effects of Langmuir–Blodgett monolayers on the electrical conductivity of aluminium deposits, 274
Copper
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
stability of compounds in thin film metal couples in the course of long ageing at room temperature, 181
uniformity of sputtered films formed by fan-shaped composite targets, 176
Corrosion
potentiostatic testing of thin film aluminium corrosion propagation under plasma-enhanced chemically vapor deposited silicon nitride protective films, 73
Cuprous oxide
galvanostatic deposition and electrical characterization of cuprous oxide thin films, 92

Deposition processes
laser-deposited thin TeSeSn alloy films, 80
reactive sputtering process model for symmetrical planar diode systems, 17
sol–gel silicon dioxide films, 188
uniformity of sputtered films formed by fan-shaped composite targets, 176

Diamond
diamond-like carbon films synthesized by cathodic arc evaporation, 165
Dielectric properties
$BaTiO_3$ thin film capacitors deposited by r.f. magnetron sputtering, 230
sol–gel silicon dioxide films, 188

Electrical properties
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
charge carriers transport in poly(phenylene vinylene) films, 84
electrical and optical properties of amorphous carbon layers: limits of the isotropic layer model, 195
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
galvanostatic deposition and electrical characterization of cuprous oxide thin films, 92
structural and electrical properties of cadmium oxide films deposited by the activated reactive evaporation technique, 240
study of crystallization of antimony thin films by transmission electron microscopy observations and electrical measurements, 161
Epitaxy
influence of tin on InAs dissolution and epitaxy in In–Sn melts, 26
Evaporation
diamond-like carbon films synthesized by cathodic arc evaporation, 165
indium fluoride thin films prepared by sublimation under vacuum, 38
structural and electrical properties of cadmium oxide films deposited by the activated reactive evaporation technique, 240
effect of Langmuir–Blodgett monolayers in decreasing the particle sizes of evaporated aluminium, 277

Fluorides
fluorides compounds for IR coatings, 109
indium fluoride thin films prepared by sublimation under vacuum, 38
sodium fluoride thin films by chemical vapor deposition, 9
Fourier transform IR spectroscopy
Fourier transform IR spectroscopy studies on Langmuir–Blodgett films of 2,4-bis(4-methyloctadecylamino-2-methyl phenyl)cyclobutadienediylium-1,3-diolate, 264
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280

Gallium
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
Gallium arsenide
carrier-induced lower energy side shift of the absorption edge in undoped GaAs films, 211
Germanium
comparison of methods for the determination of optical constants of thin films, 137
Gold
stability of compounds in thin film metal couples in the course of long ageing at room temperature, 181
Grain boundaries
metallurgical applications of the thermoelastic microscope, 127

Indium
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
indium fluoride thin films prepared by sublimation under vacuum, 38
influence of tin on InAs dissolution and epitaxy in In–Sn melts, 26
Infrared spectroscopy
fluoride compounds for IR coatings, 109
investigations of hard BN films obtained by ion plating, 59
IR characterization of thermal SiO_2 layers, 174
Inorganic compounds
room temperature compound formation in Ag–Cd and Ag–Zn thin film couples and their transformation by ageing, 44
stability of compounds in thin film metal couples in the course of long ageing at room temperature, 181
Interfaces
metallurgical applications of the thermoelastic microscope, 127
Ion plating
investigations of hard BN films obtained by ion plating, 59
Iron
Auger electron spectroscopy study of room temperature oxidation of $FeSi_x$ after Ar^+ ion bombardment, 132

Langmuir–Blodgett films
concentration of enzymes adsorbed onto Langmuir films and characteristics of a urea sensor, 259
Fourier transform IR spectroscopy studies on Langmuir–Blodgett films of 2,4-bis(4-methyloctadecylamino-2-methyl phenyl)cyclobutadienediylium-1,3-diolate, 264
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280
Langmuir–Blodgett films of C_{60}, 150
orientation control of liquid crystals by Langmuir–Blodgett films, 269
particular effects of Langmuir–Blodgett monolayers on the electrical conductivity of aluminium deposits, 274
effect of Langmuir–Blodgett monolayers in decreasing the particle sizes of evaporated aluminium, 277
Laser irradiation
charge carriers transport in poly(phenylene vinylene) films, 84
laser-deposited thin TeSeSn alloy films, 80
Luminescence
thin film $MgAl_2O_4$: Mn spinel phosphor, 207

Magnesium oxide
thin film $MgAl_2O_4$: Mn spinel phosphor, 207
Molybdenum
primary study of structures of r.f.-sputtered MoS_2 films, 1
Monolayers
concentration of enzymes adsorbed onto Langmuir films and characteristics of a urea sensor, 259
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280
particular effects of Langmuir–Blodgett monolayers on the electrical conductivity of aluminium deposits, 274
Multilayers
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280
surface plasmon resonance studies of chemisorbed biotin–streptavidin multilayers, 122

Nickel
substrate effect on texturized microstructures in Ni–Cr thin films, 67

Optical coatings
fluoride compounds for IR coatings, 109
optical properties of tantalum pentoxide coatings deposited using ion beam processes, 223
Optical properties
comparison of methods for the determination of optical constants of thin films, 137
carrier-induced lower energy side shift of the absorption-edge in undoped GaAs films, 211
electrical and optical properties of amorphous carbon layers: limits of the isotropic layer model, 195
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
fluoride compounds for IR coatings, 109
indium fluoride thin films prepared by sublimation under vacuum, 38
investigations of hard BN films obtained by ion plating, 59
Langmuir–Blodgett films of C_{60}, 150
optical properties of tantalum pentoxide coatings deposited using ion beam processes, 223
sol–gel silicon dioxide films, 188
Organic substances
surface plasmon resonance studies of chemisorbed biotin–streptavidin multilayers, 122
Oxidation
Auger electron spectroscopy study of room temperature oxidation of $FeSi_x$ after Ar^+ ion bombardment, 132
Oxides
$BaTiO_3$ thin film capacitors deposited by r.f. magnetron sputtering, 230
optical properties of tantalum pentoxide coatings deposited using ion beam processes, 223

Photovoltaics
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
Physical vapour deposition
reactive sputtering process model for symmetrical planar diode systems, 17
uniformity of sputtered films formed by fan-shaped composite targets, 176
Plasma processing
effect of diluent gas and rapid thermal annealing on the properties of plasma-deposited silicon nitride films, 215
Polymers
charge carriers transport in poly(phenylene vinylene) films, 84
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280

Raman spectroscopy
diamond-like carbon films synthesized by cathodic arc evaporation, 165
primary study of structures of r.f.-sputtered MoS_2 films, 1

Selenides
characterization of thin film $CuGa_{0.5}In_{0.5}Se_2$ heterojunctions, 104
Selenium
laser-deposited thin TeSeSn alloy films, 80

Sensors
concentration of enzymes adsorbed onto Langmuir films and characteristics of a urea sensors, 259
Silicides
Auger electron spectroscopy study of room temperature oxidation of $FeSi_x$ after Ar^+ ion bombardment, 132
Silicon
electronic properties of plasma-deposited films prepared from tetramethylsilane, 250
frequency-dependent conductivity in boron- and phosphorus-doped amorphous silicon films, 97
Silicon carbide
chemical vapour infiltration of Si_xC_{1-x} films for the preparation of composite materials using both organosilicon and hydrocarbon precursors, 52
Silicon dioxide
IR characterization of thermal SiO_2 layers, 174
sol–gel silicon dioxide films, 188
Silicon nitride
potentiostatic testing of thin film aluminum corrosion propagation under plasma-enhanced chemically vapor deposited silicon nitride protective films, 73
effect of diluent gas and rapid thermal annealing on the properties of plasma-deposited silicon nitride films, 215
Silver
room temperature compound formation in Ag–Cd and Ag–Zn thin film couples and their transformation by ageing, 44
stability of compounds in thin film metal couples in the course of long ageing at room temperature, 181
Sodium
sodium fluoride thin films by chemical vapor deposition, 9
Sputtering
reactive sputtering process model for symmetrical planar diode systems, 17
Stress
metallurgical applications of the thermoelastic microscope, 127
size-dependent structural characteristics of thin bismuth films, 32
Structural properties
galvanostatic deposition and electrical characterization of cuprous oxide thin films, 92
insoluble monolayers of a preformed polymer containing carboxylic acid hydrophilic groups—cadmium ion binding to monolayers and ionization in multilayers, 280
structural and electrical properties of cadmium oxide films deposited by the activated reactive evaporation technique, 240
structural investigation of reactively sputtered boron nitride films, 155
Sulphide
primary study of structures of r.f.-sputtered MoS_2 films, 1
Surface energy
orientation control of liquid crystals by Langmuir–Blodgett films, 269.
Surface morphology
structural investigation of reactively sputtered boron nitride films, 155
Surface plasmons
surface plasmon resonance studies of chemisorbed biotin–streptavidin multilayers, 122

Tantalum
optical properties of tantalum pentoxide coatings deposited using ion beam processes, 223

Tellurium
laser-deposited thin TeSeSn alloy films, 80
Tin
influence of tin on InAs dissolution and epitaxy in In–Sn melts, 26
laser-deposited thin TeSeSn alloy films, 80
Titanium
$BaTiO_3$ thin film capacitors deposited by r.f. magnetron sputtering, 230
Transmission electron microscopy
size-dependent structural characteristics of thin bismuth films, 32
Transmission electron spectroscopy
study of the crystallization of antimony thin films by transmission electron microscopy observations and electrical measurements, 161
effect of Langmuir–Blodgett monolayers in decreasing the particle sizes of evaporated aluminium, 277
X-ray diffraction
primary study of structures of r.f.-sputtered MoS_2 films, 1
room temperature compound formation in Ag–Cd and Ag–Zn thin film couples and their transformation by ageing, 44
size-dependent structural characteristics of thin bismuth films, 32
substrate effect on texturized microstructures in Ni–Cr thin films, 67
thin film $MgAl_2O_4$: Mn spinel phosphor, 207
X-ray photoelectron spectroscopy
chemical vapour infiltration of Si_xC_{1-x} films for the preparation of composite materials using both organosilicon and hydrocarbon precursors, 52
particular effects of Langmuir–Blodgett monolayers on the electrical conductivity of aluminium deposits, 274

Zinc
room temperature compound formation in Ag–Cd and Ag–Zn thin film couples and their formation by ageing, 44